

Test Procedure for §170.302 (I) Medication Reconciliation

This document describes the draft test procedure for evaluating conformance of complete EHRs or EHR modules to the certification criteria defined in 45 CFR Part 170 Subpart C of the Interim Final Rule (IFR) as published in the Federal Register on January 13, 2010. The document is organized by test procedure and derived test requirements with traceability to the normative certification criteria as described in the Overview document located at http://healthcare.nist.gov/docs/TestProcedureOverview_v1.pdf. These test procedures will be updated to reflect the certification criteria defined in the ONC Final Rule.

Note: This test procedure is scoped only to the criteria defined in 45 CFR Part 170 Subpart C of the Interim Final Rule (IFR) as published in the Federal Register on January 13, 2010. This test procedure will be updated to reflect updates to the criteria and standards as published in the ONC Final Rule. Questions about the criteria and standards should be directed to ONC.

CERTIFICATION CRITERIA

§170.302 (I) Medication reconciliation. Electronically complete medication reconciliation of two or more medication lists by comparing and merging into a single medication list that can be electronically displayed in real-time.

INFORMATIVE TEST DESCRIPTION

This section provides an informative description of how the test procedure is organized and conducted. It is not intended to provide normative statements of the certification requirements.

This test evaluates the capability for a Complete EHR or EHR Module¹ to enable a user to electronically complete medication reconciliation of two or more medication lists by comparing and merging into a single medication list that can be electronically displayed in real-time. The Vendor supplies the test data for this test procedure.

Per the IFR, the scope of this criteria is constrained to two functions (compare, merge) which may occur during medication reconciliation activities. Other functions which may also be implemented by an EHR to support medication reconciliation such as contraindication checking, identification of therapeutic equivalence, automated de-duplication, etc. are not identified in the IFR criteria and therefore are out of scope for this test procedure. Per ONC guidance, the merge capability is intended to enable a user to create a single de-duplicated list, however the criteria is intentionally silent on whether the EHR or the user accomplishes the de-duplication decision-making to arrive at a merged list. Therefore, the test procedure relies on the Vendor to identify the functions necessary to accomplish this activity.

This test procedure is organized into two sections:

¹ Department of Health and Human Services, 45 CFR Part 170 Proposed Establishment of Certification Programs for Health Information Technology, Proposed Rule, March 10, 2010.

- **Compare** – evaluates the capability to view two or more medication lists for a single patient via the EHR
 - The Vendor has created two or more medication lists in a patient's record using Vendor-supplied medication data
 - The Tester validates that each of the medication lists are viewable online as separate lists which can be easily compared.
- **Merge and Display** – evaluates the capability to combine two or more medication lists into a single medication list in the EHR; evaluates the capability to view the single medication list online in real-time (i.e., at the time the merging process takes place)
 - The Tester views the two or more medication lists that were created by the Vendor in a patient's record using Vendor-supplied medication data
 - The Tester creates one medication list by combining the medication data on all of the lists. The intention is for the Tester to be able to create a single, de-duplicated list of medications.
 - The Tester validates that the two medication lists are combined into one medication list and that this list displays immediately

REFERENCED STANDARDS

None

NORMATIVE TEST PROCEDURES

Derived Test Requirements

DTR170.302.I – 1: Compare two or more medication lists

DTR170.302.I – 2: Merge two or more medication lists into a single de-duplicated medication list and display it real-time

DTR170.302.I – 1: Compare two or more medication lists

Required Vendor Information

- VE170.302.I – 1.01: Vendor shall identify the patient with an existing record in the EHR to be used for this test
- VE170.302.I – 1.02: Vendor shall create two or more medication lists in the patient's record using Vendor-supplied medication data
- VE170.302.I – 1.03: Vendor shall identify the EHR function(s) that are available to: 1) select the patient, 2) view and compare two or more medication lists as separate lists in the patient's record, 3) merge the separate lists into a single de-duplicated medication list, 4) display the single medication list electronically and in real-time

Required Test Procedure

TE170.302.I – 1.01: Using the EHR function(s) identified by the Vendor and the NIST-supplied Inspection Test Guide, the Tester shall select the patient's record and verify that two or more medication lists are viewable online as separate lists

Inspection Test Guide:

IN170.302.I – 1.01: Tester shall verify that two or more medication lists are viewed online as separate lists and that the medication lists are used to compare the medication information between/among the separate lists

DTR170.302.I – 2: Merge two or more medication lists into a single medication list and display it real-time

Required Vendor Information

- As defined in DTR170.302.I – 1, no additional information is required

Required Test Procedure

TE170.302.I – 2.01: Using the EHR function(s) identified by the Vendor, the Tester shall select the patient's record and display two or more medication lists as separate lists

TE170.302.I – 2.02: Using the EHR function(s) identified by the Vendor, the Tester shall combine two or more medication lists into one single de-duplicated list

TE170.302.I – 2.03: Using the EHR function(s) identified by the Vendor and the NIST-supplied Inspection Test Guide, the Tester shall verify that the single medication list is displayed real-time

Inspection Test Guide:

IN170.302.I – 2.01: Tester shall verify that two or more medication lists have been combined into a single de-duplicated medication list

EXAMPLE TEST DATA

Test data for this test procedure are supplied by the Vendor.

CONFORMANCE TEST TOOLS